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Establishing the **ELIXIR** microbiome community

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Establishing the ELIXIR Microbiome Community

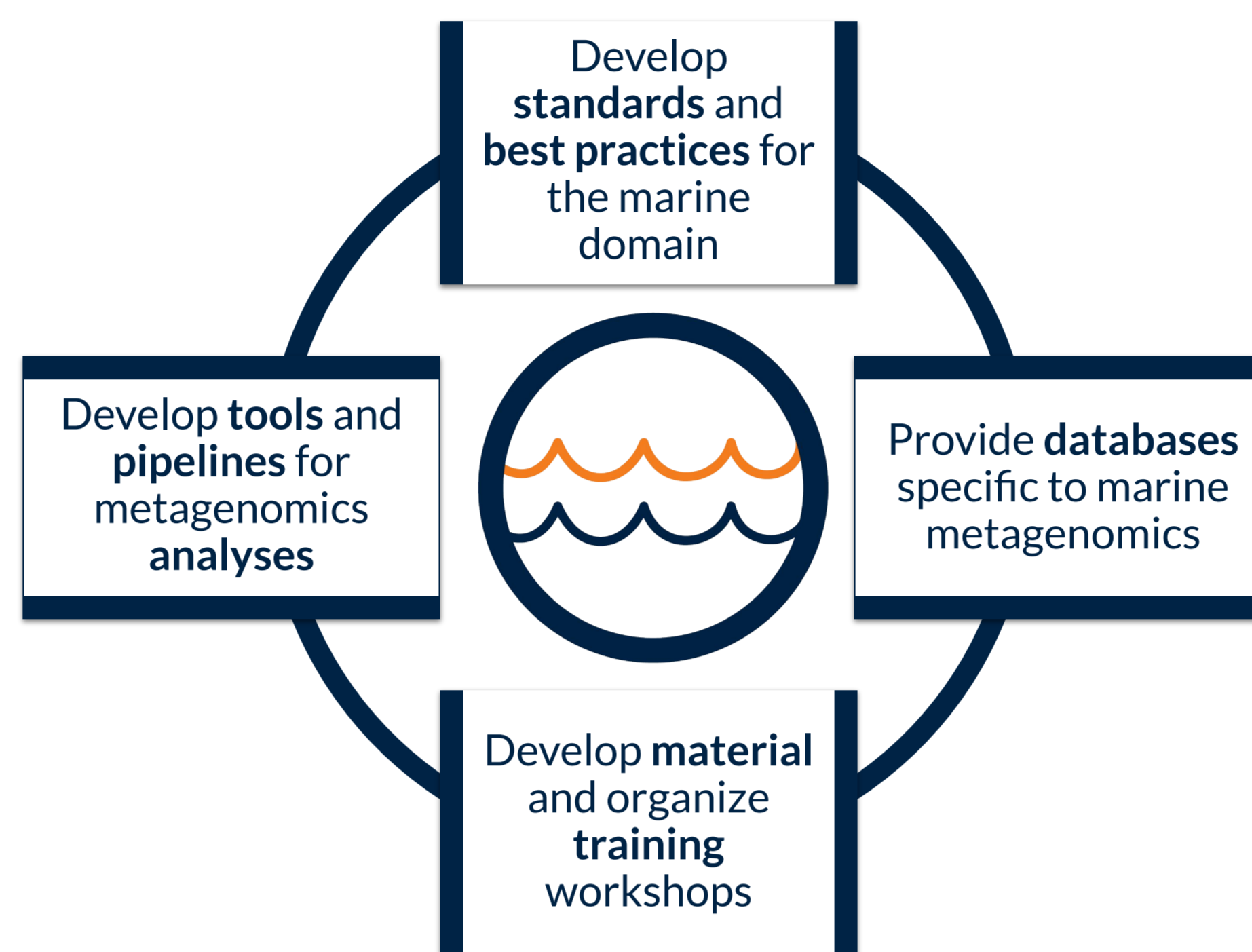


ELIXIR All Hands, 5-8 June 2023, Dublin, Ireland

Introduction

Microbiome research has grown substantially over the past decade in terms of the range of biomes sampled, technologies being applied, and the volume of data derived from the samples. In particular, experimental approaches such as shotgun metagenomics, metabarcoding, and metatranscriptomics have provided profound insights into the vast, hitherto vastly unknown, microbial biodiversity.

ELIXIR Marine Metagenomics Community



The ELIXIR Marine Metagenomics Community was initiated amongst researchers focusing on marine microbiomes in 2015. It concentrated on **promoting standards** around microbiome-derived sequence-based analysis, **understanding the gaps in methods and reference databases**, and finding **solutions to computational overheads** of performing such analyses.

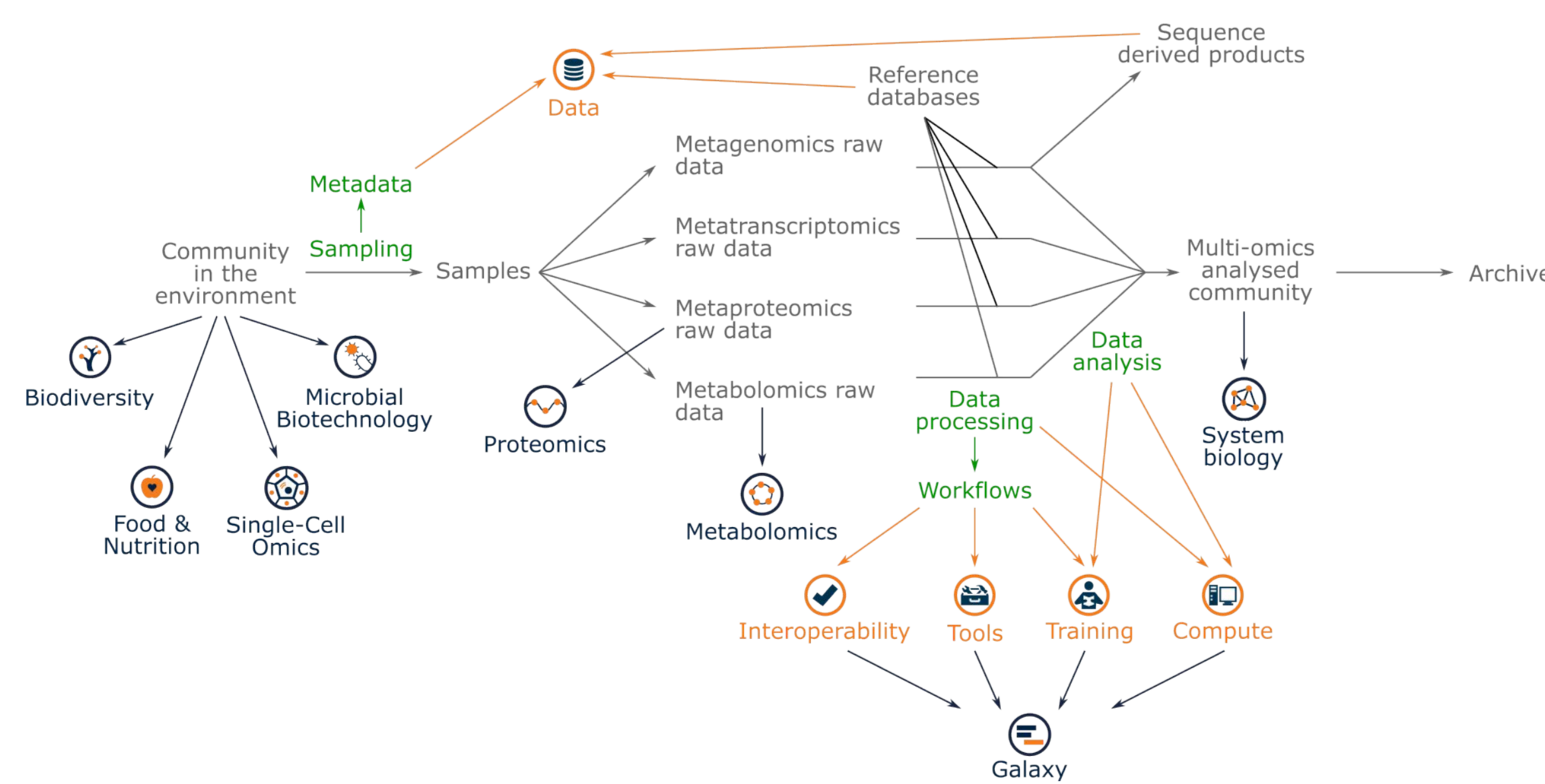
The methods used and the challenges faced are not confined to marine studies but are broadly applicable to all other biomes.

Towards a more inclusive ELIXIR Microbiome Community

Expanding the Marine Metagenomics Community to a more inclusive ELIXIR Microbiome Community will **encompass a broader range of biomes**. Engaging with a larger number of researchers will improve the **efficiency and sustainability** of bioinformatics infrastructure for microbiome resources (standards, data, tools, workflows, training), which will enable a deeper understanding of the composition, function and taxonomy of the entire microbial community as well as the **definition and adoption of dedicated FAIR standards and methods** within the Community.

Fully integrated within ELIXIR

Along with the whole microbiome life cycle



New roadmap



White paper

Open for ELIXIR wide review until August 11th

Community meeting

Dates: Sept. 12th & 13th, 2023
Location: Barcelona & Online
Together with the Biodiversity Community

New leadership



Bérénice Batut



Eric Pelletier



Rob Finn



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